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Index

COUNTY IN



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COUNTY INDEX TO MINERALS OF CALIFORNIA

An Index to the Mineral Localities listed in Bulletin 173 of the California
Division of Mines

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Preface

The 1956 edition of Minerals of California (Bulletin 173) is a catalog of mineral species and their important occurrences within the state. Arranged as it is, in alphabetical order, any mineral in the Bulletin is easily found.

However, the first question of many persons interested in mineralogy, and especially those residing in California, concerns the minerals that are found in a particular part of the state. Also, interest is added to the study of mineralogy when it is shown that many species are found within one county.

To answer the questions about the minerals found in a specific area, this County Index to Minerals of California has been compiled. It was prepared from Minerals of California (Bulletin 173) and tabulates by counties the occurrences listed in that publication. Also indicated are the localities of the species first discovered in California and the date of their first published description.

The County Index lists 2833 localities for the 523 mineral species known to occur in California. By use of the index, along with Bulletin 173, the descriptions of mineral occurrences for any part of the state can quickly be found.

The assistance of Mrs. Gayle De Martin in the preparation of this index is gratefully acknowledged.

Donald O. Emerson

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Davis, California
April 1, 1958

ALTA EDA COUNTY

Alunogen	Kaolinite
Amphiboles	Krönkite
Actinolite	Lawsonite
Glaucophane	Maghemite
Analcite	Magnesite
Anauxite	Melanterite
Aragonite	Natrolite
Barite	Pisanite
Bementite	Psilomelane
*Boothite, 1903	Pyrite
Calcite	Pyrolusite
Chalcanthite	Pyrophyllite
Chalcopyrite	Pyroxenes
Chlorites	Enstatite
Penninite	Quartz
Chromite	Rhodo-chrosite
Copiapite	Rhodonite
Copper	Stibnite
Epsomite	Talc
Galena	Vivianite
Gold	Mollastonite
Halotrichite	Zaratite
Hydromagnesite	Zircon
Inosite	

* Species first discovered in a county of California are marked by an asterisk and followed by the date of the first published description.

ALPINE COUNTY

Andalusite	Potash Alum
Argentite	Proustite
Arsenolite	Pyrargyrite
Arsenopyrite	Pyrite
Barite	Pyrrhotite
Calcite	Quartz
Chalcanthite	Realgar
Chalcocite	Rhodochrosite
Chalcopyrite	Römerite
Chloropal	Rutile
Enargite	Scheelite
Famatinite	Silver
Galena	Sphalerite
Garnet	Stephanite
Halite	Stibnite
Halotrichite	Stromeyerite
Iddingsite	Sulphur
Ilmenite	Tenorite
Lazulite	Tetrahedrite
Melanterite	Tourmaline
Polybasite	Wolframite

ADLER COUNTY

Amphiboles	Malachite
Tremolite	Marcasite
Anauxite	Melanterite
Ankerite	Mendozite
Apatite	Molybdenite
Arsenopyrite	Psilomelane
Axinite	Pyrophyllite
Cassiterite	Pyrrhotite
Chalcopyrite	Quartz
Chlorites	Chalcedony
Clinocllore	Rhodochrosite
Penninite	Rhodonite
Chromite	Rutile
Copper	Scheelite
Diamond	Serpentine
Dolomite	Sphalerite
Epsomite	Strengite
Galena	Talc
Gold	Tetrahedrite
Graphite	Wollastonite
*Ionite, 1878	Zircon
Kaolinite	
Loellingite	

RUTTE COUNTY

Andalusite	Psilomelane
Antimony	Quartz
Axinite	<i>indent ></i> Chalcedony
Barite	Rhodonite
Bournonite	Rutile
Cassiterite	Spinel
Chlorites	Talc
Prochlorite	Tellurium
Chromite	Topaz
Chrysoberyl	Vesuvianite
Corundum	Vivianite
Epidote	Zircon
Galena	
Garnet	
Glaucconite	
Gold	
Gypsum	
Iridosmine	
Iron	
Lead	
Magnetite	

CALIFORNIA COUNTY

Allanite	Coloradoite	Malachite
Altaite	Columbite	Marcasite
Alunite	Copper	Nagarite
Amphiboles	Coquimbite	Mariposite
Hornblende	Covellite	Melinite, 1967
Glaucophane	Cuprite	Molybdenite
Ankerite	Diaspore	Nagyagite
Aragonite	Dolomite	Niccolite
Arsenopyrite	Emmonsite	Opal
Azurite	Epidote	Petrite
Barite	Erythrite	Potash Alum
Bementite	Eucairite	Psilomelane
Boothite	Feldspars	Pyrite
Bornite	Albite	Pyrolusite
Brochantite	Orthoclase	Pyromorphite
*Calaverite, 1968	Galena	Pyrrhotite
Calcite	Garnet	Quartz
Cerargyrite	Gold	Chalcedony
Chalcantite	Graphite	Rhodochrosite
Chalcocite	Gypsum	Rhodonite
Chalcopyrite	Hessite	Scheelite
Chlorites	Jamesonite	Serpentine
Penninite	Kaolinite	Siderite
Chromite	Magnetite	Silver

(Cont. next pg.)

GALAVERNAS COUNTY (Cont.)

Smaltite

Sphalerite

Stibnite

Sylvanite

Talc

Tellurium

Tenorite

Tetradymite

Tetrahedrite

Tourmaline

Uraconite

Uraninite

Vesuvianite

Vivianite

Zircon

COLUSA COUNTY

Alunite

Aragonite

Chalcocite

Chalcopyrite

Chromite

Cinnabar

Copper

Cuprite

Datolite

Epidote

Gold

Argentian

Hydromagnesite

Marcasite

Metacinnabar

Pectolite

Prehnite

Psilomelane

Pyrite

Pyrolusite

Stibnite

Sulphur

Tenorite

Thomsonite

CONT'D LIST MINERAL

Anthophyllite	Lawsonite
Actinolite	Marcosite
Anthophyllite	Helanterite
Tremolite	Metacinnabar
Grossite	Potash Alum
Nauxite	Psilomelane
Pyrite	Pyroclucite
Pyrite	Pyroxenes
Pornite	Enstatite
Chalcocynite	Diallage
Chlorites	Diopside
Prochlorite	Römerite
Chromite	Rutile
Cinnabar	Siderotil
Coriapite	Sphene
Epsomite	Stibnite
Feldspar	Zaratite
Albite	
Fluorite	
Halotrichite	

DELICIOUS MINERAL

Arsenopyrite
Awaruite
Bornite
Chalcocite
Chalcopyrite
Chlorites
 Penninite
Chromite
Copper
Cuprite
Enargite
Ferrimolybdate
Garnet
Graphite
Iridosmine
Magnesite
Marcasite
Mercury
Monazite
Pyrolusite
Pyrrhotite
Silver
Tenorite
Tetrahedrite
Troilite
Wollastonite
Zircon

EL DORADO COUNTY

Amphiboles	Feldspars	Fluorite, 1.75
Hornblende	Orthoclase	Scheelite
anatase	Ferrimolybdate	Serpentine
ankerite	Galena	Siderite
Antimony	Garnet	Sphalerite
Arsenopyrite	Garnierite	Sphene
Axinite	Gold	Stromeyerite
Azurite	Halotrichite	Talc
Barite	Hessite	Tenorite
Bismuth-Gold	Ilmenite	Topaz
Bornite	Iron	Tourmaline
Brookite	Ludwigite	Variscite
Calaverite	Magnetite	Vesuvianite
Calcite	Mariposite	Wulfenite
Chalcocite	Massicot	Zircon
Chalcopyrite	Molybdenite	
Chlorites	Petzite	
Clinocllore	Prehnite	
Penninite	Pyrite	
Chloropal	Pyrolusite	
Chromite	Pyromorphite	
Copper	Pyrophyllite	
Coquimbite	Pyroxenes	
Cuprite	Diopside	
Enargite	Quartz	
Epidote	Rhodonite	

FLUORIDE

Amphiboles	Cuprite	Dioside
Hornblende	Cuprotungstite	Hedenbergite
Tremolite	Diamond	Aegirite-Aegirite
Barkevikite	Diaspore	Pyrrhotite
Analcite	Epidote	Quartz
Nauxite	Ferrimolybdenite	Chalcedony
Andalusite	Galena	Rhodonite
Anatite	Garnet	Rutile
Aragonite	<i>gold</i> Argentian	Scheelite
Arsenopyrite	Graphite	Serpentine
Beryl	Gypsum	Silver
Bindheimite	Hematite	Sphalerite
Bismuthinite	Hydromagnesite	Sphene
Bismutite	Ilvaite	Spinel
Bornite	Ludwigite	Tenorite
Brucite	Magnesite	Topaz
Calcite	Magnetite	Tourmaline
Chalcantite	Molybdenite	Vermiculite
Chalcocite	Natrolite	Vesuvianite
Chalcopyrite	Opal	Mollastonite
Chlorites	Phlogopite	Zircon
Clinocllore	Potash Alum	
Chromite	Psilomelane	
Clinohumite	Pyroxenes	

CLINT COUNTY

Chromite

Copper

Psilomelane

Talc

Volborthite

MINERAL DENSITY

Actinolite	Vivianite
Barite	Zircon
Bertrandite	
Bornite	
Braunite	
Chalcocite	
Chalcopyrite	
Chromite	
Chrysocolla	
Copper	
Cuprite	
Epidote	
Gold	
Hematite	
Iridosmine	
Lawsonite	
Magnesite	
Malachite	
Millerite	
Nectocite	
Psilomelane	
Pyrolusite	
Pyrrhotite	
Rhodochrosite	
Rhodonite	
Scheelite	
Spinel	
Tin	

MINERAL QUANTITY

Anhydrite	Hematite	Wollastonite
Argentite	Iron	Sulfenite
Arsenopyrite	Jarosite	
Azurite	Kyanite	
Barite	Manganite	
Blödite	Mariposite	
Calcite	Mirabilite	
Cerussite	Muscovite	
Chalcocite	Miter	
Chalcopyrite	Psilomelane	
Chrysocolla	Pyrolusite	
Claudetite	Pyrophyllite	
Copper	Realgar	
Covellite	Sal Ammoniac	
Cristobalite	Scorodite	
Cuprite	Siderite	
Dumortierite	Soda Miter	
Epsomite	Sphalerite	
Fayalite	Sphene	
Galena	Sulphur	
Garnet	Talc	
Garnierite	Tetrahedrite	
Glauberite	Thénardite	
Graphite	Tourmaline	
Gypsum	Tridymite	
Halloysite	Turquoise	

ALPHABETICALLY

Adamite	Bismuthinite	Sovellite	Argentian
Alunite	Bismutite	Creedite	Greenockite
Alunogen	Borax	Cristobalite	Gypsum
Amphiboles	Bornite	Crocoite	Halloysite
Tremolite	Boulangerite	Cuacite	Hanksite
Analcite	Bournonite	Datolite	Hematite
Anglesite	Brochantite	Dawsonite	Hemimorphite
Anhydrite	Calcite	Dufrenoyite	Howlite
Annabergite	Caledonite	Embolite	Hydroboracite
Apatite	Cassiterite	Epidote	Hydromagnesite
Aragonite	Celestite	Epsomite	Hydrozincite
Argentite	Cerargyrite	Erythrite	Iddingsite
Arsenic	Cerussite	Famatinite	Ilsemanite
Arsenopyrite	Cervantite	Fayalite	*Inyoite, 1914
Atacamite	Chalcocite	Feldspars	Iron
Aurichalcite	Chalcopyrite	Microcline	Jamesonite
Autunite	Chloritoid	Orthoclase	Jarosite
Axinite	Chloropal	Fluorite	Kyanite
Azurite	Chrysocolla	Galena	Laumontite
Bakerite	Cinnabar	Garnet	Lazulite
Barite	Clinozoisite	Gehlenite	Lea Hillite
Bassanite	*Colemanite, 1823	Geocronite	Lepidolite
Beryl	Copper	Glauberite	Linonite
Bindheimite	Coquimbite	Goethite	Linarite
Bismuth	Coronadite	Gold	Liroconite

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INYO COUNTY (Cont.)

Litharge	Priceite	Sphalerite	Valentinite
Loellingite	Probertite	Sphene	Vanadinite
Magnesite	Pseudomalachite	Spinel	Vesuvianite
Magnetite	Psilomelane	Staurolite	Vivianite
Malachite	Pyromorphite	Stephanite	Willemitte
Marcasite	Pyrophyllite	ⁱ Stibiconite	Wolframite
Massicot	Pyroxenes	Stibnite	Wollastonite
Metacinnabar	Clinoferrosilite	Stilbite	Wulfenite
Metastibnite	Diopside	Stilpnomelane	Zoisite
*Meyerhofferite, 1914	Pyrrhotite	Stolzite	
Mimetite	Quartz	Stromeyerite	
Minium	Chalcedony	Strontianite	
Molybdenite	Realgar	Sulphur	
Montmorillonite	Sal Ammoniac	Talc	
Natrolite	Scapolite	Tencrite	
Natron	Scheelite	Tetradymite	
Nepheline	Scorodite	Tetrahedrite	
Niter	Senarmontite	Thenardite	
Phlogopite	Sepiolite	Thermonatrite	
Phosgenite	Serpentine	Torbernite	
Pickeringite	Siderite	Tourmaline	
Plumbogummite	Sillimanite	Tridymite	
Plumbojarosite	Silver	Trona	
Potash Alum	Smaltite	Tungstite	
Powellite	Smithsonite	Turgite	
Prehnite	Soda Niter	Ulexite	

MIN. SOCIETY

Alunite	Chalcopyrite	Ilmenite	Mineralite, 1924
Amphiboles	Chloritoid	Inderite	Monazite
Actinolite	Chloropal	Iron	Psilomelane
Tremolite	Caryocolla	Jamesonite	Pyroxyrite
Analcite	Cinnabar	Kermesite	Pyroxenes
Andalusite	Clinoptilolite	Kernite, 1927	Estatite
Antimony	Coccinite	Lazulite	Tyrhottite
Aragonite	Colmanite	Lead	Quartz
Argentite	Cuprite	Lepidomelane	Chalcedony
Arsenopyrite	Cuprotungstite	Litharge	Realgar
Autunite	Dolomite	Ludwigite	Rhodocite
Boxinite	Dumortierite	Magnesite	Scapolite
Burite	Epidote	Magnetite	Scheelite
Barite	Feldspars	Marcasite	Scorodite
Berillite	Orthoclase	Mariposite	Serpentine
Bismuthinite	Ferrimolybdite	Massicot	Sillimanite
Borax	Fluorite	Minetite	Silver
Bornite	Galena	Minium	Smithsonite
Bournonite	Garnet	Molybdenite	Sphalerite
Brookite	Gibbsite	Montmorillonite	Sphene
Brookite	Graphite	Natrolite	Stardumene
Calcite	Gummite	Niter	Stibnite
Cassiterite	Gypsum	Opal	Stibnite
Celandonite	Hematite	Orpiment	Sulphur
Cerargyrite	Hemimorphite	Phillipsite	Tenerite
Cervantite	Heulandite	Piedmontite	Tetrahedrite
Chalcocite	Howlite	Powellite	Thenardite
	Iddingsite		

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MIN. COUNTY

Andersite

Andersite

Chromite

Epsomite

Gypsum

Magnesite

Mercury

INDEX

Amphiboles	Barrosite	Talc
Glaucophanes	Chlorite	Tremolite
Blackschist	Chromite	Tschermakite
Argonite	Detacinnite	Ulexite
Azurite	Millerite	Wollastonite
Barax	Centrocite	Zoisite
Bornite	Hornblende	
Chalcocite	Orpiment	
Chromite	Pectolite	
Cinnabar	Pirssonite	
Copiapite	Pseudophyte, 177	
Copper	Potash Alum	
Cordierite	Telluride	
Curtisite	Pyrolusite	
Dolomite	Pyroxenes	
Epsomite	Diopside	
Feldspars	Quartz	
Anorthite	Sassolite	
Fluorite	Serpentine	
Gay-Lussite	Stibnite	
Glauberite	Sulfur	
Gole	Tecpleite, 136	
Halite	Thermonatrite	
Hematite	Tiemannite	
Jarosite		

MINERALOGY

Blende	Columbite	Lawsonite	Siderite
Pyrite	Columbite	Lawsonite	Sillimanite
Berkovite	Copper	Magnesite	Silica
Crossite	Corundum	Magnetite	Spaltite
Glaucophane	Corundum	Marcasite	Stilbite
Calcite	Dolomite	Melanterite	Stilbite
Andalusite	Epidote	Minium	Stilbite
Anthophyllite	Epsomite	Molybdenite	Talc
Apophyllite	Erythrite	Montmorillonite	Tetrahedrite
Arsonite	Feldspars	Natrolite	Thomsonite
Asenite	Albite	Opal	Thorite
Barite	Labradorite	Pharmacolite	Tourmaline
Bastnaesite	Fluorite	Piedmontite	Tridymite
Benitoite	Galenite	Potash Alum	Ulexite
Bismutite	Garnet	Prehnite	Veatchite, 1931
Bornite	Glaucophane	Robertite	Vivianite
Calcite	Gold	Psilomelane	Wircen
Calcetite	Graphite	Ptilolite	Zeolite
Cannizzite	Griffithite, 1917	Pyrrhotite	
Chalcocite	Gypsum	Quartz	
Chalcocyanite	Halotrichite	Chalcedony	
Chlorite	Hollandite	Realgar	
Clinoclone	Howlite	Rhodinite	
Chromite	Iddingsite	Roscelite	
Chrysocolla	Ilmenite	Sal Ammoniac	
Clinocisite	Iron	Serpentine	
	Kyanite		

Mineralogy

Albite	Garnet
Amphiboles	Geld
Actinolite	Argentian
Tremolite	Ulexite
Andalusite	Lazulite
Anglesite	Lazurite
Aragonite	Linarite
Aspinite	Magnesite
Azurite	Magnetite
Bismuthinite	Molybdenite
Bornite	Phlogopite
Calcite	Piedmontite
Cerussite	Pyrolusite
Chalcocite	Pyrophyllite
Chalcopyrite	Pyroxenes
Chromite	Diopside
Chrysocolla	Pyrrhotite
Cobaltite	Rhodochrosite
Columbite	Rhodonite
Copper	Scheelite
Cubanite	Silver
Epidote	Sphalerite
Feldspars	Talc
Orthoclase	Tourmaline
Ferrinolite	Turquoise
Galena	Wavellite
	Wolframite
	Zeravite

MINERAL

Alunogen	Pyrolusite
Amphiboles	Pyroxenes
Actinolite	Jadeite
Nephrite	Pyrrhotite
Tremolite	Quartz
Glaucophane	Chalcedony
Apophyllite	Rutile
Axinite	Scheelite
Calcite	Sphene
Chalcopyrite	Czaibelyite
Chromite	Wollastonite
Epidote	Zircon
Feldspars	
Albite	
Garnet	
Graphite	
Hydromagnesite	
*Lawsonite, 1895	
Margarite	
Muscovite	
Prehnite	
Psilomelane	
Pumpellyite	

MINERALITY

Alunite	Cuprite	Mercury	Silver
Alunogen	Epidote	Molybdenite	Sphalerite
Andalusite	Epsomite	Pitticite	Sulphur
Ankerite	Erythrite	Platinum	Talc
Argentite	Feldspars	Proustite	Tellurium
Arsenopyrite	Celsian	Pyrrargyrite	Tenorite
Azurite	Ferrimolybdenite	Pyrite	Tetrahedrite
Barite	Galena	Pyrolusite	Witherite
Bementite	Garnet	Pyromorphite	
Bornite	Garnierite	Pyrophyllite	
Bromlite	Gersdorffite	Pyrrhotite	
Chalcocite	Gillespite	Quartz	
Chalcopyrite	Goethite	Rhodochrosite	
Chloropal	Gold	Rhodonite	
Chromite	Gold Amalgam	Sanbornite, 1931	
Chrysocolla	Kobellite	Scheelite	
Cinnabar	Limonite	Scorodite	
Cobaltite	Magnesite	Serpentine	
Copper	Malachite	Siderite	
Cordierite	Mariposite, 1868	Stilpnomelane	

Amphiboles	Iridium	Zoisite
Actinolite	Jefferisite	
Nephrite	Laumontite	
Crossite	Lawsonite	
Hebeckite	Magnesite	
Azurite	Mercury	
Tremolite	Neotocite	
Bornite	Platinum	
Brewsterite	Psilomelane	
Chalcopyrite	Pyrolusite	
Chromite	Pyroxenes	
Chrysocolla	Jadeite	
Cinnabar	Rhodochrosite	
Clinozoisite	Rutile	
Copper	Sphene	
Cuprite	Tenorite	
Edinastonite	Tetrahedrite	
Epidote	Xonotlite	
Garnet	Zaratite	
Graphite	Zircon	
Inesite		

MINERALOGY

Calcite

Chalcopyrite

Copper

Glaucconite

Gypsum

Hydromagnesite

Jarosite

Psilomelane

Soda Niter

Sphalerite

Stibnite

MINERAL LIST

Azurite

Calcite

Chalcopyrite

Chloropal

Copper

Cristobalite

Cumrite

Feldspars

Labradorite

Iron

Malachite

Miter

Quartz

Chalcedony

Stilbite

Tourmaline

Water-Ice

COMMON

Amphibole	Calcite	Epidote	Linneite
Amphibole	Caledonite	Feldspar	Magnetite
Hornblende	Cerargyrite	Albite	Malachite
Amphibole	Cerussite	Ferrimolybdate	Marcasite
Andalusite	Cervantite	Fluorite	Massicot
Anglesite	Chabazite	Galena	Mercury
Anhydrite	Chalcantite	Gay-Lussite	Minium
Apatite	Chalcocite	Geocronite	Molybdenite
Argentite	Chalcopyrite	Gold	Opal
Arsenopyrite	Chloropal	Argentian	Partzite, 1867
Augelite	Chrysocolla	Greenockite	Pectolite
Aurichalcite	Cinnabar	Gypsum	Potash Alum
Axinite	Cobaltite	Halloysite	Powellite
Azurite	Copper	Hanksite	Proustite
Barite	Corundum	Hematite	Pyrrhotite
Bismuth	Covellite	Hessite	Pyromorphite
Bismuthinite	Cristobalite	Ilmenite	Pyrophyllite
Bismutite	Cuprite	Jarosite	Pyrrhotite
Bornite	Diaspore	Kermesite	Quartz
Boulangerite	Diopside	Lazulite	Rutile
Brannerite	Enkolite	Lazurite	Scheelite

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MINERALOGY (Cont.)

Acornzallite

Siderite

Silver

Sphalerite

Sphene

Stephanite

Stibnite

Stromeyerite

Sulphur

Tetrahedrite

Tenax

Tourmaline

Tridymite

Trona

Vanadinite

Vesuvianite

Wollastonite

Woodhouseite, 1937

Xulfenite

Xurtzite

Zircon

Zoisite

Amphibol	Magnesit
Benhrite	Malachite
Agatite	Metacinnabar
Aragonite	Molybdenite
Arsenic	Piedmontite
Arsenopyrite	Pisgahite
Axinite	Psilomelane
Azurite	Quartz
Calcite	Chalcedony
Cerussite	Rhodonite
Chlorites	Serpentine
Penninite	Spinel
Chromite	Stibnite
Cinnabar	Sulphur
Clinozoisite	Zaratite
Feldspars	
Orthoclase	
Galena	
Carnet	
Glaucconite	
Graphite	

NADU COUNTY

Aragctite	Fibroferrite	Proustite
Argentite	Galena	Psilomelane
Arsenopyrite	Gypsum	Pyrargyrite
Barite	Hohmannite	Pyrolusite
Potryogen	Hydromagnesite	Quartz
Calomel	Jamesonite	Chalcedony
Cassiterite	Magnesio-Copiapite	*Redingtonite, 1890
Cerargyrite	*Knoxvillite, 1890	Serpentine
Chalcocite	Magnesite	Silver
Chalcopyrite	Marcasite	Smaltite
Chromite	Melanterite	Stibnite
Cinnabar	Mendozite	Voltaite
Copiapite	Mercury	Wollastonite
Copper	*Metacinnabar, 1870	
Coquimbite	Millerite	
Crednerite	Mirabilite	
Cuprite	Morenosite	
Curtisite	*Napalite, 1888	
Deweylite	Opal	
Epsomite	Posepnyte	
Erythrite	Potash Alum	

NEVADA COUNTY

Chrysocolla

Altaite	Cinnabar	Naumannite	Zircon
Alunogen	Cobaltite	Petzite	
Anatase	Copper	Psilomelane	
Andalusite	Covellite	Pyrargyrite	
Ankerite	Cristobalite	Pyrite	
Argentite	Cuprite	Pyromorphite	
Arsenic	Diamond	Pyroxenes	
Arsenopyrite	Epidote	Enstatite	
Azurite	Ferrimolybdenite	Diallage	
Barite	Galena	Pyrrhotite	
Bismuth	Garnet	Rhodonite	
Bornite	Gibbsite	Scapolite	
Calcite	Gold	Scheelite	
Chabazite	<i>gold</i> Amalgam	Serpentine	
Chalcanthite	Graphite	Smaltite	
Chalcocite	Gypsum	Sphalerite	
Chalcopyrite	Hessite	Stephanite	
Chlorites	Magnesite	Stibnite	
Penninite	Magnetite	Tetradymite	
Chloropal	Marcasite	Tetrahedrite	
Chromite	Maricosite	Tourmaline	
*Chromrutile, 1928	Molybdenite	Wollastonite	

ORANGE COUNTY

Alunite

Anhydrite

Aragonite

*Arcanite, 1908

Argentite

Barite

Calomel

Cassiterite

Cerussite

Galena

Garnet

Gypsum

Kaolinite

Melanterite

Mercury

Metacinnabar

Muscovite

Piedmontite

Pyrrhotite

Sphalerite

Stibnite

Tiemannite

Tourmaline

PLUMER COUNTY

Alunogen	Garnet	Scheelite
Amphiboles	Gold	Serpentine
Trenolite	Argentian	Silver
Aragonite	Hausmannite	Skhalerite
Argentite	Hematite	Spinel
Arsenopyrite	Iridosmine	Stibnite
Axinite	Kaolinite	Tetrahedrite
Azurite	Lead	Tourmaline
Barite	Limonite	Vesuvianite
Cassiterite	Magnesite	Zircon
Cerargyrite	Magnetite	
Chalcanthite	Malachite	
Chalcocite	Mariposite	
Chalcopyrite	Villerite	
Chlorites	Molybdenite	
Clinocllore	Potash Alum	
Penninite	Psilomelane	
Chloropal	Pyrargyrite	
Chromite	Pyrolusite	
Cobaltite	Pyroxenes	
Copper	Diopside	
Coquimbite	Quartz	
Cuprite	Chalcedony	
Feldspars	Rhodochrosite	
Albite	Rhodonite	
Galena	Rutile	

PLUELS COUNTY

Amphiboles	Albite	Serpentine
Hornblende	Garnet	Siderite
Tremolite	Hausmannite	Silver
Analcite	Hematite	Sphalerite
Anauxite	Heulandite	Sphene
Anglesite	Ilmenite	Stilbite
Ankerite	Laumontite	Strontianite
Apatite	Magnetite	Tetrahedrite
Apophyllite	Malachite	Thomsonite
Azurite	Margarite	Tourmaline
Barite	Millerite	Tridymite
Bornite	Molybdenite	Vesuvianite
Braunite	Natrolite	Wulfenite
Brochantite	Phillipsite	Zircon
Chabazite	Piedmontite	Zoisite
Chalcocite	Platinum	
Chalcopyrite	Prehnite	
Chromite	Psilomelane	
Chrysocolla	Pyrolusite	
Copper	Pyrophyllite	
Corundum	Pyroxenes	
Covellite	Hypersthene	
Cristobalite	Pyrrhotite	
Cubanite	Quartz	
Cuprite	Chalcedony	
Enargite	Rhodonite	
Epidote	Schoelite	
Feldspars	Scolecite	

DIVERSITY

fluorite	Scannite	Suorocolumbite	Sylvan
Allerite	Bornite	Custerite	Hematite
Amarantite	Brucite	Cynoclite	Hydromagnesite
Anbygonite	Bultfonteinite	Dankurite	Hydroxycellite
Amphiboles	Calcite	Datolite	Macdonite
Anthophyllite	Cassiterite	Deweyite	Kyanite
Hornblende	Centrellasite	Dumortierite	Laumontite
Tremolite	Cerussite	+Ellestadite, 1937	Lechatellierite
anatase	Chalcocite	Epidote	Lepidolite
andalusite	Chalcocryrite	Epistilbite	Loellingite
anglesite	Chlorites	Feldspars	Ludwigite
Anhydrite	Clinocllore	Microcline	Maghemite
apatite	Chloropal	Fergusonite	Magnesianferrite
apophyllite	Chondrodite	Fluorite	Magnesite
Aragonite	Chrysocolla	Forsterite	Magnetite
argentite	Clinocroisite	+Foshagite, 1926	Marcasite
Arsenopyrite	Colerantite	Galena	Marinosite
Axinite	Columbite	Garnet	+Merwinite, 1921
Azurite	Coriandrite	Gehlenite	Microcline
Barite	Copper	Geikielite	Molybdenite
Bementite	Cordierite	Gibbsite	Monazite
Beryl	Corundum	Gothite	Monticellite
Birotite	Cristobalite	Gonnardite	Montmorillonite
Bismuth	Crocoite	Graphite	Nasonite
Bismuthinite	Cuprite	Greencockite	Neotocite

(Cont. next pg.)

LIVERMORE COUNTY (Cont.)

Niter	Seniolite	Vermiculite
Okenite	Serendibite	Vesuvianite
Periclase	Serpentine	Wonsenite, 1926
Perovskite	Siderite	*Wilkeite, 1914
Phillipsite	Smithsonite	Hollistonite
Phlogopite	Soda Niter	Wulfenite
Piedmontite	Sohalerite	Xanthophyllite
*Plazolite, 1920	Sphene	Xenotime
Prehnite	Spinel	Xenotilite
Psilomelane	Spodumene	Yttrocrasite
Ptilolite	Spurrite	Zircon
Pyrite	Stibnite	Zoisite
Pyrolusite	Stilbite	
Pyromorphite	Stromeyerite	
Pyroxenes	Strontianite	
Diallage	Talc	
Diopside	Tetrahedrite	
Pyrrhotite	Thaumasite	
Quartz	Thorite	
Rhodonite	Thoregumite	
Rutile	*Tilleyite, 1933	
Samarskite	Tobermorite	
Scanclite	Tourmaline	
Scawtite	Ulexite	
Scheelite	Vanadinite	

SPERMATOPHYTES

Chromite

Galena

Quartz

Sphalerite

Zircon

Amphiboles	Hydroxynnesite	Orinol
Actinolite	Ilmenite	Siliconite
Barkervilleite	Jarosite	Stiknite
Glaucophane	Joaquinite, 1909	Turquoise
Analcite	Koninkite	Valentinite
Anatase	Larsonite	Vivianite
Aragonite	Magnesianferrite	Voltaite
Artinite	Magnesite	Zerolite
Barite	Belantelite	
Bementite	Mercury	
Benitoite, 1907	Metacinnabar	
Celestite	Natrolite	
Chalcocite	Neptunite	
Chalcopyrite	Nesquehonite	
Chlorites	Pectolite	
Penninite	Perovskite	
Chromite	Psilomelane	
Chrysocolla	Pumpellyite	
Cinnabar	Pyrolusite	
Diadochite	Pyroxenes	
Epsomite	Acmite-Aegirite	
Feldspars	Jadeite	
Albite	Quartz	
Garnet	Chalcedony	
Garnierite	Rutile	
Gypsum	Serpentine	

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(ont next - c.)

Jarosite	Kuscovite	Realgar	Talc
Kaolinite	Kieserite	Rhodochrosite	Tenorite
Krausite, 1831	Kaïron	Rodonite	Tetrahedrite
Kyanite	Kitter	Richterite	Thaumasite
Laurontite	Northupite, 1895	Rutile	Thenardite
Lazulite	Olivine	Saharite, 1864	Tincalconite, 1870
Lazurite	Opal	Schallerite, 1831	Tourmaline
Lepidolite	Parisite	Scheelite	Triphlite
Linarite	Pickeringite	*Searlesite, 1814	Trona
Litharge	Piedmontite	Serpentine	Turquoise
Magnesite	*Pirssonite, 1806	Williamite	Tychite, 1905
Magnetite	Polybasite	Silver	Ulexite
Marcasite	Potash Alum	Smithsonite	Uraninite
Muscicot	Prickite	Soda Niter	Vanadinite
Nelanderite	Proustite	Sphalerite	Vauquelinite
Nendazite	Psilomelane	Sphene	Vesuvianite
Nitrovoltaite	Pyrrargyrite	Spinel	Voltaite
Nitrogyrite	Pyrolusite	Stephanite	Sulfranite
Nitrite	Pyromorphite	Stibiconite	Sulfenite
Nitium	Pyrophyllite	Stibnite	Zircon
Nitrite	Pyrostilpnite	Stilbite	Zeolite
Nitrobenite	Pyroxenes	Stroneyerite	
Nitazite	Diopside	Strontianite	
Nitricellite	Quartz	*Sulphohalite, 1888	
Montmorillonite	Chalcedony	Sulphur	

SAN LEB COUNTY

Labandite	Chalcocite	Lazulite	Purpurite
Allanite	Chalcopyrite	Lepidolite	Pyrite
Ambygonite	Columbite	Lithiophilite	Pyrochlore
Anthophyllite	Cookeite	Loellingsite	Pyrophyllite
Tremolite	Corundum	Ludlamite	Pyroxenes
Grossite	Dumortierite	Malachite	Hypersthene
Glaucophane	Epidote	Manganite	Monite-leginite
Andalusite	Erythrite	Marcasite	Pyrrhotite
Apatite	Feldspars	Mariposite	Quartz
Argonite	Albite	Metastrongite	Chalcedony
Arsenopyrite	Ferromolybdate	Microcline	Rhodonite
Asxinite	Fluorite	Molybdenite	Rutile
Azurite	Galena	Monazite	Salmonsite, 1912
Bavenite	Garnet	Montmorillonite	Scheelite
Bertrandite	Glaucosite	Mercurite	Sceerodite
Beryl	Graphite	Muscovite	Sicklerite, 1912
Beyerite	Hallöysite	Pentlandite	Siderite
Biotite	Helvite	Petalite	Sillimanite
Bismite	Heulandite	Petzite	Sphalerite
Bismuth	Hureaulite	Phenakite	Schene
Bismuthinite	Palaite, 1912	Piedmontite	Spinel
Bismutite	Hydromagnesite	Pollucite	Spodumene
Calcite	Jezekite	Potash Alum	Stewartite, 1912
Cassiterite	Kyanite	Prehnite	Stibiotantalite
Celestite	Laumontite	Psilomelane	Stilkite
Cerargyrite	Lawsonite	Pucherite	Strengite

(Cont. next pg.)

AMERICAN COUNTRY, (Cont.)

Strontianite

Tenorite

Tephroite

Topaz

Tourmaline

Tridymite

Triglycite

Triplite

Vermiculite

Vesuvianite

Violarite

Wardite

Wollastonite

Zinnwaldite

Zircon

Zoisite

MINERALOGY

Apoxyllite Chalcedony

Amphibole Serpentine

Barite Tarnakite

Brucite Ollastonite

Calcite Monotilite

Chromite

Curtisite

Dactilite

Gypsum

Gyrolite

Hydromagnesite

Magnesite

Mercury

Pectolite

Pyroxenes

Enstatite

Diopside

Diopside

Quartz

TABLE 1. MIN. COUNTY

Pementite

Gypsum

Hausmannite

Inesite

Psilomelane

Pyrolusite

Phodochrosite

MINERAL LIST

Allanite	Magnesite	Tridymite
Alunogen	Mercury	Turquoise
Analcite	Metacinnabar	Wulfenite
Barite	Millerite	Xenotime
Biotite	Muscovite	Zircon
Calcite	Natrolite	
Chalcopyrite	Neotocite	
Chromite	Prohnite	
Cinnabar	Psilomelane	
Clinoptilolite	Pyrolusite	
Copper	Pyrophyllite	
Cubanite	Pyroxenes	
Epidote	Jadeite	
Erythrite	Quartz	
Gypsum	Chalcedony	
Heulandite	Spinel	
Hematite	Stibiconite	
Hydromagnesite	Stibnite	
Lawsonite	Thenardite	

NaClite

NaClite

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NaClite

Allanite	Opal
Amphiboles	Pectolite
Verhrite	Potash Alum
Analcite	Sal Ammoniac
Apatite	Stilbite
Azurite	Stilpnomelane
Barite	Sulphur
Cassiterite	Vivianite
Chalcopyrite	Wollastonite
Chromite	Xonotlite
Cinnabar	Zircon
Coccinite	
Copper	
Epsomite	
Gilsonite	
Gypsum	
Hydromagnesite	
Lawsonite	
Magnesite	

Index

Isardite	Epsomite	Lynceite
Illephanyite	Fluorite	Pyrocluseite
Amphiboles	Garnophyllite	Pyrrhotite
Glaucophane	Garnet	Quartz
Melchite	Gold	Chalcedony
Apatite	Greenockite	Rhodochrosite
Pyrophyllite	Guadalcazarite	Futile
Mineralite, 173	Gyrolite	Benarmontite
Arsenopyrite	Hausmannite	Siderite
Azurite	Hydromagnesite	Sphene
Barite	Jarosite	*Stibioferite, 1873
Bementite	*Kempite, 1924	Stibnite
Bornite	Lawsonite	Stilpnomelane
Braunite	Magnesite	Tephroite
Cassiterite	Malachite	Tiemannite
Chalcopyrite	Margarite	Valentinite
Chromite	Mercury	Zoisite
Chrysocolla	Metacinnabar	
Cinnabar	Philinite	
Deweylite	Psilomelane	
Dolomite	Pyrite	

S. T. S. :

Amphiboles

Tremolite

Actinolite

Calcite

Chromite

Pyroxene

Ilmenite

Magnetite

Monazite

Benignite

Stannite

Zircon

INDEX

Alunite	Copper	Melanterite	Sulphur
Ammonogen	Covellite	Mesolite	Talc
Anthophyllite	Cristobalite	Molybdenite	Tellurium
Anthophyllite	Cuprite	Nagyagite	Tenorite
Calcite	Ferrimolybdate	Natrolite	Tetrahedrite
Chalcocite	Galena	Clivine	Tourmaline
Argentite	Garnet	Pickeringite	Tridymite
Arsenopyrite	Gold	Proustite	Ulexite
Azurite	Goslarite	Psilomelane	Vivianite
Barite	Greenockite	Pyrargyrite	Voltaite
Bastnaesite	Halotrichite	Pyrite	Zaratite
Bornite	Hematite	Pyromorphite	Zinc
Calcite	Hessite	Pyroxenes	Zircon
Cerargyrite	Ilsemanite	Hedenbergite	
Cerussite	Ilvaite	Pyrrhotite	
Chabazite	Iridosmine	Quartz	
Chalcanthite	Kaolinite	Rhodonite	
Chalcocite	Lepidocrocite	Scheelite	
Chalcopyrite	Limonite	Serpentine	
Chlorites	Magnetite	Silver	
Penninite	Magnetite	Sphalerite	
Chromite	Manganite	Stephanite	

Aphidolite	Olivine
Tremolite	Muscovite
Actinolite	Actinolite
Arsenopyrite	Pyrrhotite
Teiidellite	Pyrrhotite
Stannite	Quartz
Chalocite	Scheelite
Chalcopyrite	Scheelite
Chlorite	Serpentine
Chlorite	Serpentine
Chromite	Stibnite
Copper	Stromeyerite
Corundum	Talc
Covellite	Tetrahedrite
Ferrimolybdate	Molluskite
Galena	
Gold	
Hematite	
Jamesonite	
Magnetite	
Malachite	

MINERALOGY

Amphiboles	Cristobalite	Madecarosite
Actinolite	Cuprite	Thodonite
Hornblende	Epidote	Serpentine
Hepanite	Erythrite	Oraltite
ragonite	Fayalite	Schalerite
rsenocpyrite	Galena	Spinel
Axinite	Garnet	Sulphur
Azurite	Gold	Talc
Berite	Gypsum	Tetradymite
Borax	Hessite	Tetrahedrite
Bornite	Iddingsite	Vesuvianite
Calaverite	Molybdenite	Water-Ice
Cassiterite	Opal	Mollastonite
Chalcoocite	Opimant	Zaratite
Chalcopyrite	Petsite	Zircon
Chlorites	Psilomelane	
Perninite	Pyroxenes	
Chloritoid	Hypersthene	
Chromite	Pyrrhotite	
Cinnabar	Quartz	
Copper	Chalcedony	
Covellite	Realgar	

MINERALITY

Tragonite

Chromite

Epsomite

Gypsum

Marcasite

Metacinnabar

S. C. CUNY

Benignatite	Hematite	Pumpellyite
Alunite	Hisingerite	Pyrite
Alunogen	Hydromagnesite	Pyrolusite
Amphiboles	Ilvaite	Pyroxenes
Tremolite	Kaolinite	Acmite-Aegirite
Glaucophane	Lawsonite	Jadeite
Kiesbeckite	Magnesite	Quartz
Aragonite	Margarite	Chalcedony
Azurite	Mascagnite	Tealgar
Boussingaultite	Melanterite	Rhodochrosite
Cassiterite	Mercury	Sphene
Cerussite	Metacinnabar	Stilbite
Chalcopyrite	Montroydite	Sulphur
Chromite	Nepalite	Tiemannite
Cinnabar	Natrolite	Tridymite
Clinozoisite	Opal	Tschermakite
Curtisite, 1930	Orpiment	Voltaite
Epidote	Pectolite	Zoisite
Epsomite	Pontahydrite	
Garnet	Pickeringite	
Graphite	Potash Alum	
Halotrichite	Psilomelane	

MINERAL QUALITY

Bementite

Braunite

Chromite

Cinnabar

Garnet

Gypsum

Hausmannite

Hydromagnesite

Inesite

Magnesite

Psilomelane

Pyrolusite

Rhodochrosite

SUTTER COUNTY

None listed

TEHAMA COUNTY

Aragonite

Chalcopyrite

Chlorites

Penninite

Chromite

Copper

Cristobalite

Galena

Garnet

Opal

Pectolite

Sassolite

Wollastonite

TRINITY COUNTY

Amphiboles	Coniapite	Morenosite	Sphene
Anthophyllite	Copper	Muscovite	Stibnite
Nephrite	Cuorite	Nagyagite	Sylvanite
Tremolite	Diamond	Orpiment	Szomolnokite
Analcite	Epidote	Petzite	Talc
Arsenclite	Ferrimolybdate	Pisanite	Wollastonite
Arsenopyrite	Fibroferrite	Platiniridium	Zircon
Azurite	Galena	Platinum	
Barite	Garnet	Psilomelane	
Bementite	Goslarite	Pumpellyite	
Beryl	Halotrichite	Pyroxenes	
Bieberite	Hausmannite	Hypersthene	
Bornite	Iddingsite	Jadeite	
Fraunite	Inesite	Pyrrhotite	
Casserite	Iridosmine	Realgar	
Chalcanthite	Iron	Rhodochrosite	
Chalcocite	Limonite	Rhodonite	
Chalcopyrite	Massicot	Römerite	
Chromite	Melanterite	Scheelite	
Cinnabar	Mercury	Serpentine	
Claudetite	Molybdenite	Sphalerite	

TULARE COUNTY

Illanite	Galena	Smithsenite
Amphiboles	Garnet	Soda Niter
Hornblende	Gehlenite	Sphalerite
Nechrite	Gold	Spinel
Tremolite	Argentian	Stibnite
Fiebeckite	Graphite	Stilbite
Andalusite	Gypsum	Tourmaline
Annabergite	Jefferisite	Vesuvianite
Aragonite	Limonite	Wolframite
Arsenopyrite	Linarite	Wollastonite
Axinite	Magnesite	Zoisite
Azurite	Minium	
Barite	Molybdenite	
Bornite	Opal	
Calcite	Powellite	
Cerussite	Psilomelane	
Chalcopyrite	Pyrargyrite	
Chromite	Pyromorphite	
Chrysocolla	Pyrrhotite	
Copper	Quartz	
Cordierite	Chalcedony	
Epidote	Rhodonite	
Feldspars	Scapolite	
Oligoclase	Scheelite	
Fluorite	Serpentine	

TUOLUMNE COUNTY

Allanite	Ferrimolybdate	Tetrahedrite
Altaite	Galena	Tin
Amphiboles	Garnet	Tourmaline
Tremolite	Gold	Tridymite
Phebeckite	Graphite	
Anauxite	Hessite	
Ankerite	Iridosmine	
Argonite	Kyanite	
Argentite	Magnesite	
Arsenopyrite	Malachite	
Azurite	Marcasite	
Bementite	Variscite	
Berthierite	Molybdenite	
Beryl	Petzite	
Bornite	Pitticite	
Calaverite	Psilomelane	
Calcite	Pyrite	
Chalcocite	Pyrrhotite	
Chalcopyrite	Rhodochrosite	
Chromite	Rhodonite	
Coloradoite	Scheelite	
Covellite	Scorodite	
Cristobalite	Sillimanite	
Epidote	Sphalerite	
Erythrite	Sylvanite	
Feldspars	Tellurium	
Microcline	Tetradymite	

MINERAL

Amber

Analcite

Azurite

Boussingaultite

Chalcopyrite

Colemanite

Cuprite

Galena

Garnet

Gypsum

Howlite

Hydroboracite

Marcasite

Mesolite

Millerite

Molybdenite

Montmorillonite

Muscovite

Natrolite

Pentlandite

Pyrrhotite

Sulphur

YOLA COUNTY

Tranotite

Cinnabar

Fluorite

Marcasite

Metacinnabar

Sulphur

YUBA COUNTY

Amphiboles

 Tremolite

Arsenopyrite

Chalcopyrite

Chlorites

 Penninite

Chromite

Cuprite

Ferrimolybdate

Garnet

Molybdenite

Pilinite

Rhodonite

Scheelite

Sylvanite

Talc

Vivianite

Zircon

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